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Substitute for form 1449B/PTO Complete if Known 10/047,078 **Application Number** INFORMATION DISCLOSURE January 14, 2002 **Filing Date** STATEMENT BY APPLICANT **First Named Inventor** CHISHTI, MUHAMMAD Group Art Unit Unassigned (use as many sheets as necessary) **Examiner Name** Unassigned Sheet Attorney Docket Number 018563-005110US

		U.S. Patent Document			Pages, Colu	mns, Lines,	
xaminer Initials *	Cite No. ¹	Number Kind Code ² (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Cold Where F Passages of Co >> Figures	elevant r Relevapt Appear	6
gne	AA	3,660,900	Andrews	5/9/1972	<u> </u>		
	AB	3,860,803	Levine	1/14/1975			
	AC	4,504,225	Yoshii	3/12/1985			
	AD	4,505,673	Yoshii	3/19/1985			
	AE	4,755,139	Abbatte et al.	7/5/1988			
	AF	4,798,534	Breads	1/17/1989			
	AG	4,836,778	Baumrind et al.	6/1989			
	AH	4,856,991	Breads et al.	8/15/1989			
	Al	4,936,862	Walker et al.	7/26/1990			
	AJ	5,011,405	Lemchen	4/30/1991		-	
	AK	5,017,133	Miura	5/21/1991		C	_
	AL	5,035,613	Breads et al.	7/30/1991		(i), -	<u> </u>
	AM	5,055,039	Abbatte et al.	10/8/1991		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	5 (
	AN	5,059,118	Breads et al.	10/22/1991			<u> </u>
	AO	5,139,419	Andreiko et al.	8/18/1992		-	+_
	AP	5,186,623	Breads et al.	2/16/1993		1	ر.,
	AQ	5,273,429	Rekow	12/28/1993		:	-
	AR	5,338,198	Wu et al.	8/16/1994		6	
	AS	5,340,309	Robertson	8/23/1994		14	\neg
	AT	5,342,202	Deshayes	8/30/1994			
	AU	5,368,478	Andreiko et al.	11/29/1994			\top
	AV	5,382,164	Stem	1/17/1995			7
	AW	5,395,238	Andreiko et al.	3/7/1995		1	1
	AX	5,431,562	Andreiko et al.	7/11/1995			T
	AY	5,447,432	Andreiko et al.	9/5/1995			T
	AZ	5,452,219	Dehoff et al.	9/19/1995			
	ВА	5,454,717	Andreiko et al.	10/3/1995			
	BB	5,456,600	Andreiko et al.	10/10/1995			T
	ВС	5,474,448	Andreiko et al.	12/12/1995			
1	BD	5,533,895	Andreiko et al.	7/9/1996			
1	BE	5,542,842	Andreiko et al.	8/6/1996			
	BF	5,549,476	Stern	8/27/1996			
- 	BG	5,587,912	Andersson et al.	12/24/1996		T	
4/4	ВН	5,605,459	Kuroda et al.	2/25/1997		 _	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 2 of 4

DES AND	Complete if Known
Application Number	10/047,078
Filing Date	January 14, 2002
First Named Inventor	CHISHTI, MUHAMMAD
Group Art Unit	Unassigned
Examiner Name	Unassigned
Attorney Docket Number	018563-005110US

	U.S. PATENT DOCUMENTS							
		U.S. Pa	tent Docu	ment			Pages, Col	unins, Lines,
Examiner Initials *	Cite No.'	Number	Kind C		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Where	
90	BI	5,607,3	305		Andersson et al.	3/4/1997	/	
10/2	BJ	5,645,4	121		Slootsky	7/8/1997		
In	вк	5,683,2	243		Andreiko et al.	11/1997		

	FOREIGN PATENT DOCUMENTS							
	0.4	Fore	eign Patent Doc	ument	Name of Patentee	Date of Publication of	Pages, Columns, Lines, Where Relevant	
Examiner Initials*	Cite No. ¹	Office ³	Number ⁴	Kind Code ⁵ (if known)	or Applicant of Cited Document	Cited Document MM-DD-YYYY	Passages or Relevant Coffgures Appear	T⁵
42	BL	France	2 369 828			6/2/1978		
One	ВМ	PCT	WO 94/10935			5/26/1994		

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		T ²	
ghe	BN	"DentSim Dent-X's virtual reality 3-D training simulator A revolution in dental education," downloaded from www.dent-x.com/DentSim.htm, 9/24/98, 6 pgs.			
	во	Biostar Operation & Training Manual, Great Lakes Orthodontics, Ltd. 199 Fire Tower Drive, Tonawanda, New York, 14150-5890, 20 pgs.	ا [در		
	ВР	Chiappone, "constructing the gnathologic setup and positioner," J. Clin. Orthod., 1980, 14:121-133.		-R 2	ľ
	BQ	Cottingham, "Gnathologic clear plastic positioner," Am. J. Orthod. 1969, 55:23-31.	7	1 20	
	BR	Cureton, "Correcting malaligned mandibular incisors with removable retainers," J. Clin. Orthod. 1996. 30:390-395.	RDO	13	
	BS	Elsasser, "Some observations on the history and uses of the Kesling positioner," Am. J. Orthod. 1950, 36:368-374.	25		
	вт	Kamada et al., "Case reports on tooth positioners with LTV vinyl silicone rubber and some case reports," J. Nihon University School of Dentistry 1982, 24(1):1-27.			
gar	BU	Kamada et al., "Construction of Tooth Positioners with LTV Vinyl Silicone Rubber and Some Case Reports," J. Nihon University School of Dentistry 3/1982, 24(1):1-26.			

Examiner Signature	John Wilm	Date Considered	6/19/03

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ghi	ву	Kesling, "Coordinating the predetermined pattern and tooth Orthod. Oral. Surg. 1946, 32:285-293.	positioner with conventiona	I treatment," Am. J.						
	BW	Kesling, "The philosophy of the tooth positioning appliance,"	Am. J. Orthod. Oral. Surg.	1945, 31(6):297-304.						
	BX Kleeman et al., "The speed positioner," J. Clin. Orthod. 1996, 30:673-680.									
	BY Kunii et al., "Abstract: Articulation simulation for an intelligent dental care system," DISPLAYS, vol. 15, no. 1, 1994, 9 pgs.									
	BZ Kuroda et al., "Three-dimensional dental cast analyzing system using laser scanning," Am. J. Orthod. Dentofac. Orthop. 1996, 110:365-369.									
	CA	Lawrence F. Andrews, D.D.S., "Straight Wire, The Concept 15-24.	and Appliance," The Six Ke		7)					
	СВ	Lawrence F. Andrews, D.D.S., "The six to normal occlusion	" Am. J. Orthod. 9/1972, 29	06-308. 05-C	THE C					
	сс	Nippon Dental Review, "New orthodontic device-dynamic pound transparent silicone rubber," 1980, 452:61-74.	sitioner (D.P.)-I Approach t	to the proposal of D.P.						
	CD	Nippon Dental Review, "New orthodontic device-dynamic portion of D.P. and transparent silicone rubber," 1980,		i â	155					
	CE	Nippon Dental Review, "New orthodontic device-dynamic pocclusion," 457:146-164.	sitioner (D.P.)-III, Case rep	orts of reversed	i.					
	CF	Nippon Dental Review, "New orthodontic device-dynamic pocclusion," 1980, 458:112-129.	sitioner (D.P.) - Case repo	rts of reversed						
	CG Nishiyama et al., "A new construction of tooth repositioner by LTV vinyl silicone rubber," J. Nihon Univ. School of Dentistry 1977, 19(2):93-102.									
	CH Raintree Essix & ARS Materials, Inc., Raintree Essix, Technical Magazine Table of contents and Essix Appliances, https://www.essix.com/magazine/default.html 08/13/97, 7 pgs.									
	CI	Richmond et al., "The development of the PAR Index (Peer Journal of Orthodontics 14, 1992, 15 pgs.	Assessment Rating): reliab	ility and validity," EU						
gar	Cl	Schroeder et al., "Algorithms 1," The Visualization Toolkit ch	apter 6-9.9, 1996.							

Examiner Signature	John Wila	Date Considered	6/19/03

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gh	СК	Shilliday, "Minimizing finishing problem:	s with the mini-position	er," Am. J. Orthod. 1971,	59:596-599.	
Jin	CL	Warunek et al., "Clinical Use of Silicone	e Elastomer Appliances	,," JCO 10/1989, 694-700	•	
Jre	СМ	Warunek et al., "Physical and mechanic Dentofac. Orthop. 1989, 95:388-400.	cal properties of elastor	mers in orthodontic position	oners,* Am. J. Orthod.	
gni	CN	Wells, "Application of the positioner app	pliance in orthodontic tr	eatment," Am. J. Orthodo	nt. 1970, 58:351-366.	
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Examiner Signature Sola Wilson	Date Considered	6/19/03
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			Group Art Unit	3732			
/	(use as many s	heets as necessary)	Examiner Name	Unassigned			
heel	3	of	Attorney Docket Number	018563-005110US			

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Examiner Initials *	Cite No.1	Number Kind (if knd		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Where Relevant Passages or Relevant Figures Appear				
95	Α	4,793,803		Martz	12/27/1988					
na	AA	6,217,334	B1	Hultgren	. 04/17/2001					
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yn	AB	PCT	WO98/32394	A1	Hultgren	07/30/1998			
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Examiner Initials *	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.							
gu	AC	Doyle, "Digital Dentistry" Computer Graphics World (October 2000) pp. 50-52, 54.							
AD Redmond et al., "Clinical Implications of Digital Orthodontics" Am. J. Orthodont. Dentofacial Orthopedics (2000)									

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Date Examiner 03 Considered Signature

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